Write an equation and solve. Show all work.

1. Mt. Everest, the highest elevation in Asia, is 29,028 feet above sea level. The Dead Sea, the lowest elevation, is 1,312 feet below sea level. What is the difference between these two elevations?

2. In Buffalo, New York, the temperature was ⁻14°F in the morning. If the temperature dropped 7°, what is the temperature now?

3. A submarine was situated 800 feet below sea level. If it ascends (goes up) 250 feet, what is its new position?

4. Roman Civilization began in 509 B.C. and ended in 476 A.D. How long did Roman Civilization last?

5. In the Sahara Desert one day it was 136°F. In the Gobi Desert a temperature of -50°F was recorded. What is the difference between these two temperatures?

6. Metal mercury at room temperature is a liquid. Its melting point is ⁻39°C. The freezing point of alcohol is ⁻114°C. How much warmer is the melting point of mercury than the freezing point of alcohol?

7. Tasha finished the first draft of her history essay. The teacher said it had to be at least six hundred words long. She counted the words in her draft and found she had 369. How many more words does she need to meet the minimum word count for the assignment?

8. Sam recorded a temperature of 17°C, and Kelly recorded a temperature 20°C lower. What temperature did Kelly record?

9. Courtney is very interested in cryogenics (the science of very low temperatures). With the help of her science teacher she is doing an experiment on the effect of low temperatures on bacteria. She cools one sample of bacteria to a temperature of -58°C and another to -85°C. What was the temperature difference in the two experiments?